

CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT: BRISTOL		INVOICE TO: BRISTOL		TURNAROUND REQUEST in Business Days* Organic & Inorganic Analyses <div style="display: flex; justify-content: space-around;"> <div>10 7 5 4 3 2 1 <1</div> <div>STD.</div> <div>5 4 3 2 1 <1</div> <div>STD.</div> </div> Petroleum Hydrocarbon Analyses <div style="display: flex; justify-content: space-around;"> <div>5 4 3 2 1 <1</div> <div>STD.</div> <div>OTHER Please Specify</div> </div> <p><small>*Turnaround Requests less than standard may incur Rush Charges.</small></p>			
REPORT TO: ANNE KRANAUWETTER		P.O. NUMBER: 21090					
ADDRESS: AMCHITKA ISLAND, ALASKA		REQUESTED ANALYSES					
PHONE: 907-770-0974 FAX: 770-0975							
PROJECT NAME: AMCHITKA							
PROJECT NUMBER: 21090							
SAMPLED BY: Anne							
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	D20	BTEX w/NaPh	HClD			
1. 01AMB9375L	6/14/01 1600	✓	✓				
2. 01AMB9385L	6/14/01 1610	✓	✓				
3. 01AMB9395L	6/14/01 1620	✓	✓				
4. 01AMB9405L	6/14/01 1630	✓	✓				
5. 01AMB9415L	6/14/01 1640	✓	✓				
6. 01AMB9425L	6/14/01 1650	✓	✓				
7. 01AMB9435L	6/14/01 1700	✓	✓				
8. 01AMB9445L	6/14/01 1705	✓	✓				
9. 01AMB9455L	6/14/01 1710	✓	✓				
10. 01AMB9465L	6/14/01 1720	✓	✓				
11. 01AMB9475L	6/14/01 1730	✓	✓				
12. 01AMB9485L	6/14/01 1740	✓	✓				
13. 01AMB9495L	6/14/01 1750	✓	✓				
14. 01AMB9505L	6/14/01 1800	✓	✓				
15. 01AMB9515L	6/14/01 1805			✓			
RELINQUISHED BY: Anne	DATE: 6/15/01	RECEIVED BY: Craig Bralle	DATE: 6/15/01				
PRINT NAME: Anne Kranauwetter	FIRM: BRISTOL	PRINT NAME: Craig Bralle	FIRM: NCA				
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:				
PRINT NAME:	FIRM:	PRINT NAME:	FIRM:				
ADDITIONAL REMARKS:							

COC #83

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CHAIN OF CUSTODY REPORT

Work Order #: **m106043**

CLIENT: Bristol		INVOICE TO: Bristol		TURNAROUND REQUEST in Business Days* Organic & Inorganic Analyses <input type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. Petroleum Hydrocarbon Analyses <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. <input type="checkbox"/> OTHER Please Specify _____ <small>*Turnaround Requests less than standard may incur Rush Charges.</small>						
REPORT TO: Anne Kranawetter		P.O. NUMBER: 21090								
ADDRESS: Anchutka Island, Alaska										
PHONE: 907 770 0974		FAX: 770 0975								
PROJECT NAME: Anchutka		REQUESTED ANALYSES								
PROJECT NUMBER: 21090										
SAMPLED BY: Anne										
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME					MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WO ID	
1. 01AMB952X	6/14/01 1810	HClD						S	1	
2. 01AMB953SL	6/14/01 1815							S	1	
3. 01AMB954SL	6/14/01 1820							S	1	
4. 01AMB955X	6/14/01 1830									
5.										
6.										
7.										
8.										
9.										
10.										
11.										
12.										
13.										
14.										
15.										

RELINQUISHED BY: Anne Kranawetter	DATE: 6/15/01	RECEIVED BY: Craig Beadle	DATE: 6/15/01
PRINT NAME: Anne Kranawetter	TIME: 808	PRINT NAME: Craig Beadle	TIME: 0800
RELINQUISHED BY: Anne Kranawetter	DATE: _____	RECEIVED BY: Craig Beadle	DATE: _____
PRINT NAME: _____	TIME: _____	PRINT NAME: _____	TIME: _____
ADDITIONAL REMARKS:	FIRM: Bristol	FIRM: NCA	

COC REV 3/99

TEMP: **5.4°C**

PAGE **2** OF **2**



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6 December, 2001

Anne Kranawetter
Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 06/15/01 08:08. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson
Environmental Group Leader

Work Orders included in this report:

M106043



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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/19/01 14:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AM B937SL	M106043-01	Soil	06/14/01 16:00	06/15/01 08:08
01AM B938SL	M106043-02	Soil	06/14/01 16:10	06/15/01 08:08
01AM B939SL	M106043-03	Soil	06/14/01 16:20	06/15/01 08:08
01AM B940SL	M106043-04	Soil	06/14/01 16:30	06/15/01 08:08
01AM B941SL	M106043-05	Soil	06/14/01 16:40	06/15/01 08:08
01AM B942SL	M106043-06	Soil	06/14/01 16:50	06/15/01 08:08
01AM B943SL	M106043-07	Soil	06/14/01 17:00	06/15/01 08:08
01AM B944SL	M106043-08	Soil	06/14/01 17:05	06/15/01 08:08
01AM B945SL	M106043-09	Soil	06/14/01 17:10	06/15/01 08:08
01AM B946SL	M106043-10	Soil	06/14/01 17:20	06/15/01 08:08
01AM B947SL	M106043-11	Soil	06/14/01 17:30	06/15/01 08:08
01AM B948SL	M106043-12	Soil	06/14/01 17:40	06/15/01 08:08
01AM B949SL	M106043-13	Soil	06/14/01 17:50	06/15/01 08:08
01AM B950SL	M106043-14	Soil	06/14/01 18:00	06/15/01 08:08
01AM B951SL	M106043-15	Soil	06/14/01 18:05	06/15/01 08:08
01AM B952SL	M106043-16	Soil	06/14/01 18:10	06/15/01 08:08
01AM B953SL	M106043-17	Soil	06/14/01 18:15	06/15/01 08:08
01AM B954SL	M106043-18	Soil	06/14/01 18:20	06/15/01 08:08
01AM B955SL	M106043-19	Soil	06/14/01 18:30	06/15/01 08:08

C.O.C. # 83

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Environmental Laboratory Network

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/19/01 14:59

Hydrocarbon Identification per NW-TPH Methodology North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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01AM B951SL (M106043-15) Soil

Sampled: 06/14/01 Received: 06/15/01

Gasoline Range Hydrocarbons	ND	9.78	mg/kg	1	NWTPH HCID	06/15/01	06/15/01	0106049
Diesel Range Hydrocarbons	ND	24.5	"	"	"	"	"	"
Heavy Oil Range Hydrocarbons	ND	48.9	"	"	"	"	"	"
<i>Surr: 1-Chlorooctadecane</i>	<i>100 %</i>	<i>50-150</i>						

01AM B952SL (M106043-16) Soil

Sampled: 06/14/01 Received: 06/15/01

Gasoline Range Hydrocarbons	72.5	10.2	mg/kg	1	NWTPH HCID	06/15/01	06/15/01	0106049
Diesel Range Hydrocarbons	316	25.5	"	"	"	"	"	"
Heavy Oil Range Hydrocarbons	ND	51.1	"	"	"	"	"	"
<i>Surr: 1-Chlorooctadecane</i>	<i>102 %</i>	<i>50-150</i>						

01AM B953SL (M106043-17) Soil

Sampled: 06/14/01 Received: 06/15/01

Gasoline Range Hydrocarbons	ND	10.3	mg/kg	1	NWTPH HCID	06/15/01	06/15/01	0106049
Diesel Range Hydrocarbons	ND	25.8	"	"	"	"	"	"
Heavy Oil Range Hydrocarbons	ND	51.7	"	"	"	"	"	"
<i>Surr: 1-Chlorooctadecane</i>	<i>103 %</i>	<i>50-150</i>						

01AM B954SL (M106043-18) Soil

Sampled: 06/14/01 Received: 06/15/01

Gasoline Range Hydrocarbons	ND	9.63	mg/kg	1	NWTPH HCID	06/15/01	06/15/01	0106049
Diesel Range Hydrocarbons	ND	24.1	"	"	"	"	"	"
Heavy Oil Range Hydrocarbons	ND	48.2	"	"	"	"	"	"
<i>Surr: 1-Chlorooctadecane</i>	<i>97.3 %</i>	<i>50-150</i>						

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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North Creek Analytical, Inc.
Environmental Laboratory Network



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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/19/01 14:59

Diesel Hydrocarbons (C10-C25) per AK102
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AM B937SL (M106043-01) Soil					Sampled: 06/14/01 Received: 06/15/01				
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	06/16/01	06/17/01	0106054	
Surr: 1-Chlorooctadecane	78.0 %	75-125							
Surr: Triacotane	104 %	75-125							
01AM B938SL (M106043-02) Soil					Sampled: 06/14/01 Received: 06/15/01				
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	06/16/01	06/17/01	0106054	
Surr: 1-Chlorooctadecane	88.9 %	75-125							
Surr: Triacotane	88.2 %	75-125							
01AM B939SL (M106043-03) Soil					Sampled: 06/14/01 Received: 06/15/01				
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	06/16/01	06/17/01	0106054	
Surr: 1-Chlorooctadecane	79.1 %	75-125							
Surr: Triacotane	105 %	75-125							
01AM B940SL (M106043-04) Soil					Sampled: 06/14/01 Received: 06/15/01				
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	06/16/01	06/17/01	0106054	
Surr: 1-Chlorooctadecane	89.6 %	75-125							
Surr: Triacotane	90.2 %	75-125							
01AM B941SL (M106043-05) Soil					Sampled: 06/14/01 Received: 06/15/01				
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	06/16/01	06/17/01	0106054	
Surr: 1-Chlorooctadecane	80.3 %	75-125							
Surr: Triacotane	108 %	75-125							
01AM B942SL (M106043-06) Soil					Sampled: 06/14/01 Received: 06/15/01				
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	06/16/01	06/17/01	0106054	
Surr: 1-Chlorooctadecane	86.6 %	75-125							
Surr: Triacotane	88.6 %	75-125							

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Environmental Laboratory Network

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/19/01 14:59

Diesel Hydrocarbons (C10-C25) per AK102
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AM B943SL (M106043-07) Soil					Sampled: 06/14/01 Received: 06/15/01				
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	06/16/01	06/17/01	0106054	
Surr: 1-Chlorooctadecane	80.6 %	75-125							
Surr: Triacontane	115 %	75-125							
01AM B944SL (M106043-08) Soil					Sampled: 06/14/01 Received: 06/15/01				
Diesel Range Organics	201	150	mg/kg dry	1	AK 102	06/17/01	06/17/01	0106056	
Surr: 1-Chlorooctadecane	61.6 %	50-150							
Surr: Triacontane	95.4 %	50-150							
01AM B945SL (M106043-09) Soil					Sampled: 06/14/01 Received: 06/15/01				
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	06/17/01	06/17/01	0106056	
Surr: 1-Chlorooctadecane	72.1 %	50-150							
Surr: Triacontane	94.3 %	50-150							
01AM B946SL (M106043-10) Soil					Sampled: 06/14/01 Received: 06/15/01				
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	06/17/01	06/17/01	0106056	
Surr: 1-Chlorooctadecane	81.8 %	50-150							
Surr: Triacontane	90.5 %	50-150							
01AM B947SL (M106043-11RE1) Soil					Sampled: 06/14/01 Received: 06/15/01				
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	06/18/01	06/18/01	0106063	
Surr: 1-Chlorooctadecane	67.4 %	50-150							
Surr: Triacontane	126 %	50-150							
01AM B948SL (M106043-12RE1) Soil					Sampled: 06/14/01 Received: 06/15/01				
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	06/18/01	06/18/01	0106063	
Surr: 1-Chlorooctadecane	59.9 %	50-150							
Surr: Triacontane	126 %	50-150							

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/19/01 14:59

Diesel Hydrocarbons (C10-C25) per AK102
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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01AM B949SL (M106043-13) Soil

Sampled: 06/14/01 Received: 06/15/01

Diesel Range Organics	284	150	mg/kg dry	1	AK 102	06/17/01	06/17/01	0106056	
<i>Surr: 1-Chlorooctadecane</i>	55.8 %	50-150							
<i>Surr: Triacontane</i>	98.1 %	50-150							

01AM B950SL (M106043-14RE1) Soil

Sampled: 06/14/01 Received: 06/15/01

Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	06/18/01	06/18/01	0106063	
<i>Surr: 1-Chlorooctadecane</i>	72.2 %	50-150							
<i>Surr: Triacontane</i>	130 %	50-150							

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Environmental Laboratory Network

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/19/01 14:59

BTEX, MTBE and Naphthalene per EPA Method 8021B
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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01AM B937SL (M106043-01) Soil

Sampled: 06/14/01 Received: 06/15/01

Benzene	ND	0.0855	mg/kg dry	50	1B BTEX/MTI	06/17/01	06/17/01	0106059	
Toluene	ND	0.342	"	"	"	"	"	"	
Ethylbenzene	ND	0.342	"	"	"	"	"	"	
Xylenes (total)	ND	0.684	"	"	"	"	"	"	
Naphthalene	ND	3.42	"	"	"	"	"	"	

Surr: 4-BFB 78.4 % 50-150

01AM B938SL (M106043-02) Soil

Sampled: 06/14/01 Received: 06/15/01

Benzene	ND	0.0832	mg/kg dry	50	1B BTEX/MTI	06/17/01	06/17/01	0106059	
Toluene	ND	0.333	"	"	"	"	"	"	
Ethylbenzene	ND	0.333	"	"	"	"	"	"	
Xylenes (total)	ND	0.666	"	"	"	"	"	"	
Naphthalene	ND	3.33	"	"	"	"	"	"	

Surr: 4-BFB 76.9 % 50-150

01AM B939SL (M106043-03) Soil

Sampled: 06/14/01 Received: 06/15/01

Benzene	ND	0.0641	mg/kg dry	50	1B BTEX/MTI	06/17/01	06/17/01	0106059	
Toluene	ND	0.256	"	"	"	"	"	"	
Ethylbenzene	ND	0.256	"	"	"	"	"	"	
Xylenes (total)	ND	0.513	"	"	"	"	"	"	
Naphthalene	ND	2.56	"	"	"	"	"	"	

Surr: 4-BFB 76.7 % 50-150

01AM B940SL (M106043-04) Soil

Sampled: 06/14/01 Received: 06/15/01

Benzene	ND	0.0672	mg/kg dry	50	1B BTEX/MTI	06/17/01	06/17/01	0106059	
Toluene	ND	0.269	"	"	"	"	"	"	
Ethylbenzene	ND	0.269	"	"	"	"	"	"	
Xylenes (total)	ND	0.538	"	"	"	"	"	"	
Naphthalene	ND	2.69	"	"	"	"	"	"	

Surr: 4-BFB 77.7 % 50-150

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering
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Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/19/01 14:59

BTEX, MTBE and Naphthalene per EPA Method 8021B

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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01AM B941SL (M106043-05) Soil

Sampled: 06/14/01 Received: 06/15/01

Benzene	ND	0.0715	mg/kg dry	50	1B BTEX/MTI	06/17/01	06/17/01	0106059	
Toluene	ND	0.286	"	"	"	"	"	"	
Ethylbenzene	ND	0.286	"	"	"	"	"	"	
Xylenes (total)	ND	0.572	"	"	"	"	"	"	
Naphthalene	ND	2.86	"	"	"	"	"	"	

Surr: 4-BFB 77.3 % 50-150

01AM B942SL (M106043-06) Soil

Sampled: 06/14/01 Received: 06/15/01

Benzene	ND	0.0791	mg/kg dry	50	1B BTEX/MTI	06/17/01	06/17/01	0106059	
Toluene	ND	0.317	"	"	"	"	"	"	
Ethylbenzene	ND	0.317	"	"	"	"	"	"	
Xylenes (total)	ND	0.633	"	"	"	"	"	"	
Naphthalene	ND	3.17	"	"	"	"	"	"	

Surr: 4-BFB 84.8 % 50-150

01AM B943SL (M106043-07) Soil

Sampled: 06/14/01 Received: 06/15/01

Benzene	ND	0.0596	mg/kg dry	50	1B BTEX/MTI	06/17/01	06/17/01	0106059	
Toluene	ND	0.239	"	"	"	"	"	"	
Ethylbenzene	ND	0.239	"	"	"	"	"	"	
Xylenes (total)	ND	0.477	"	"	"	"	"	"	
Naphthalene	ND	2.39	"	"	"	"	"	"	

Surr: 4-BFB 73.8 % 50-150

01AM B944SL (M106043-08) Soil

Sampled: 06/14/01 Received: 06/15/01

Benzene	ND	0.0545	mg/kg dry	50	1B BTEX/MTI	06/17/01	06/17/01	0106059	
Toluene	ND	0.218	"	"	"	"	"	"	
Ethylbenzene	ND	0.218	"	"	"	"	"	"	
Xylenes (total)	ND	0.436	"	"	"	"	"	"	
Naphthalene	ND	2.18	"	"	"	"	"	"	

Surr: 4-BFB 85.6 % 50-150

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/19/01 14:59

BTEX, MTBE and Naphthalene per EPA Method 8021B
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AM B945SL (M106043-09) Soil					Sampled: 06/14/01 Received: 06/15/01				
Benzene	ND	0.0740	mg/kg dry	50	1B BTEX/MTI	06/17/01	06/17/01	0106059	
Toluene	ND	0.296	"	"	"	"	"	"	
Ethylbenzene	ND	0.296	"	"	"	"	"	"	
Xylenes (total)	ND	0.592	"	"	"	"	"	"	
Naphthalene	ND	2.96	"	"	"	"	"	"	
Surr: 4-BFB	78.7 %	50-150							
01AM B946SL (M106043-10) Soil					Sampled: 06/14/01 Received: 06/15/01				
Benzene	ND	0.0657	mg/kg dry	50	1B BTEX/MTI	06/17/01	06/17/01	0106059	
Toluene	ND	0.263	"	"	"	"	"	"	
Ethylbenzene	ND	0.263	"	"	"	"	"	"	
Xylenes (total)	ND	0.526	"	"	"	"	"	"	
Naphthalene	ND	2.63	"	"	"	"	"	"	
Surr: 4-BFB	75.1 %	50-150							
01AM B947SL (M106043-11) Soil					Sampled: 06/14/01 Received: 06/15/01				
Benzene	ND	0.0756	mg/kg dry	50	1B BTEX/MTI	06/17/01	06/17/01	0106059	
Toluene	ND	0.302	"	"	"	"	"	"	
Ethylbenzene	ND	0.302	"	"	"	"	"	"	
Xylenes (total)	ND	0.604	"	"	"	"	"	"	
Naphthalene	ND	3.02	"	"	"	"	"	"	
Surr: 4-BFB	78.3 %	50-150							
01AM B948SL (M106043-12) Soil					Sampled: 06/14/01 Received: 06/15/01				
Benzene	ND	0.0717	mg/kg dry	50	1B BTEX/MTI	06/17/01	06/17/01	0106059	
Toluene	ND	0.287	"	"	"	"	"	"	
Ethylbenzene	ND	0.287	"	"	"	"	"	"	
Xylenes (total)	ND	0.574	"	"	"	"	"	"	
Naphthalene	ND	2.87	"	"	"	"	"	"	
Surr: 4-BFB	74.0 %	50-150							

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering	Project: Amchitka	
2000 W International Airport C#1	Project Number: 21090	Reported:
Anchorage, AK 99502-1116	Project Manager: Anne Kranawetter	06/19/01 14:59

BTEX, MTBE and Naphthalene per EPA Method 8021B

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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01AM B949SL (M106043-13) Soil

Sampled: 06/14/01 Received: 06/15/01

Benzene	ND	0.0585	mg/kg dry	50	1B BTEX/MTI	06/17/01	06/17/01	0106059	
Toluene	ND	0.234	"	"	"	"	"	"	
Ethylbenzene	ND	0.234	"	"	"	"	"	"	
Xylenes (total)	ND	0.468	"	"	"	"	"	"	
Naphthalene	ND	2.34	"	"	"	"	"	"	

Surr: 4-BFB 95.6 % 50-150

01AM B950SL (M106043-14) Soil

Sampled: 06/14/01 Received: 06/15/01

Benzene	ND	0.0708	mg/kg dry	50	1B BTEX/MTI	06/17/01	06/18/01	0106059	
Toluene	ND	0.283	"	"	"	"	"	"	
Ethylbenzene	ND	0.283	"	"	"	"	"	"	
Xylenes (total)	ND	0.567	"	"	"	"	"	"	
Naphthalene	ND	2.83	"	"	"	"	"	"	

Surr: 4-BFB 82.3 % 50-150

01AM B955SL (M106043-19) Soil

Sampled: 06/14/01 Received: 06/15/01

Benzene	ND	0.147	mg/kg dry	50	1B BTEX/MTI	06/17/01	06/18/01	0106059	
Toluene	ND	0.590	"	"	"	"	"	"	
Ethylbenzene	ND	0.590	"	"	"	"	"	"	
Xylenes (total)	ND	1.18	"	"	"	"	"	"	
Naphthalene	ND	5.90	"	"	"	"	"	"	

Surr: 4-BFB 91.8 % 50-150

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/19/01 14:59

Physical Parameters per APHA/ASTM/EPA Methods
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AM B937SL (M106043-01) Soil					Sampled: 06/14/01 Received: 06/15/01				
% Solids	88.0	0.0100 % by Weight		1	Gravimetric	06/16/01	06/17/01	0106055	
01AM B938SL (M106043-02) Soil					Sampled: 06/14/01 Received: 06/15/01				
% Solids	81.5	0.0100 % by Weight		1	Gravimetric	06/16/01	06/17/01	0106055	
01AM B939SL (M106043-03) Soil					Sampled: 06/14/01 Received: 06/15/01				
% Solids	76.5	0.0100 % by Weight		1	Gravimetric	06/16/01	06/17/01	0106055	
01AM B940SL (M106043-04) Soil					Sampled: 06/14/01 Received: 06/15/01				
% Solids	75.3	0.0100 % by Weight		1	Gravimetric	06/16/01	06/17/01	0106055	
01AM B941SL (M106043-05) Soil					Sampled: 06/14/01 Received: 06/15/01				
% Solids	71.6	0.0100 % by Weight		1	Gravimetric	06/16/01	06/17/01	0106055	
01AM B942SL (M106043-06) Soil					Sampled: 06/14/01 Received: 06/15/01				
% Solids	77.8	0.0100 % by Weight		1	Gravimetric	06/16/01	06/17/01	0106055	
01AM B943SL (M106043-07) Soil					Sampled: 06/14/01 Received: 06/15/01				
% Solids	77.9	0.0100 % by Weight		1	Gravimetric	06/16/01	06/17/01	0106055	
01AM B944SL (M106043-08) Soil					Sampled: 06/14/01 Received: 06/15/01				
% Solids	82.6	0.0100 % by Weight		1	Gravimetric	06/17/01	06/18/01	0106057	
01AM B945SL (M106043-09) Soil					Sampled: 06/14/01 Received: 06/15/01				
% Solids	78.6	0.0100 % by Weight		1	Gravimetric	06/17/01	06/18/01	0106057	

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/19/01 14:59

Physical Parameters per APHA/ASTM/EPA Methods
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AM B946SL (M106043-10) Soil					Sampled: 06/14/01 Received: 06/15/01				
% Solids	78.6	0.0100 % by Weight		1	Gravimetric	06/17/01	06/18/01	0106057	
01AM B947SL (M106043-11) Soil					Sampled: 06/14/01 Received: 06/15/01				
% Solids	84.9	0.0100 % by Weight		1	Gravimetric	06/17/01	06/18/01	0106057	
01AM B948SL (M106043-12) Soil					Sampled: 06/14/01 Received: 06/15/01				
% Solids	85.8	0.0100 % by Weight		1	Gravimetric	06/17/01	06/18/01	0106057	
01AM B949SL (M106043-13) Soil					Sampled: 06/14/01 Received: 06/15/01				
% Solids	88.4	0.0100 % by Weight		1	Gravimetric	06/17/01	06/18/01	0106057	
01AM B950SL (M106043-14) Soil					Sampled: 06/14/01 Received: 06/15/01				
% Solids	82.4	0.0100 % by Weight		1	Gravimetric	06/17/01	06/18/01	0106057	
01AM B955SL (M106043-19) Soil					Sampled: 06/14/01 Received: 06/15/01				
% Solids	100	0.0100 % by Weight		1	Gravimetric	06/17/01	06/18/01	0106057	

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/19/01 14:59

Hydrocarbon Identification per NW-TPH Methodology - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0106049 - TPH-HCID (WA)

Blank (0106049-BLK1)

Prepared & Analyzed: 06/15/01

Gasoline Range Hydrocarbons	ND	10.0	mg/kg						
Diesel Range Hydrocarbons	ND	25.0	"						
Heavy Oil Range Hydrocarbons	ND	50.0	"						
Surr: 1-Chlorooctadecane	9.82		"	10.0		98.2	50-150		

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/19/01 14:59

Diesel Hydrocarbons (C10-C25) per AK102 - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0106054 - 3545 ASE

Blank (0106054-BLK1)

Prepared: 06/16/01 Analyzed: 06/17/01

Diesel Range Organics	ND	150	mg/kg wet						
Surr: 1-Chlorooctadecane	22.4		"	23.4		95.7	75-125		
Surr: Triacontane	21.8		"	23.4		93.2	75-125		

LCS (0106054-BS1)

Prepared: 06/16/01 Analyzed: 06/17/01

Diesel Range Organics	959	150	mg/kg wet	1250		76.7	75-125		
Surr: 1-Chlorooctadecane	25.6		"	23.4		109	75-125		
Surr: Triacontane	24.1		"	23.4		103	75-125		

LCS Dup (0106054-BSD1)

Prepared: 06/16/01 Analyzed: 06/17/01

Diesel Range Organics	969	150	mg/kg wet	1250		77.5	75-125	1.04	20
Surr: 1-Chlorooctadecane	25.4		"	23.4		109	75-125		
Surr: Triacontane	24.9		"	23.4		106	75-125		

Matrix Spike (0106054-MS1)

Source: M106040-01

Prepared: 06/16/01 Analyzed: 06/17/01

Diesel Range Organics	3360	150	mg/kg dry	3940	467	73.4	60-140		
Surr: 1-Chlorooctadecane	62.0		"	73.8		84.0	75-125		
Surr: Triacontane	76.8		"	73.8		104	75-125		

Batch 0106056 - 3545 ASE

Blank (0106056-BLK1)

Prepared & Analyzed: 06/17/01

Diesel Range Organics	ND	150	mg/kg wet						
Surr: 1-Chlorooctadecane	19.2		"	23.4		82.1	50-150		
Surr: Triacontane	19.6		"	23.4		83.8	50-150		

LCS (0106056-BS1)

Prepared & Analyzed: 06/17/01

Diesel Range Organics	952	150	mg/kg wet	1250		76.2	75-125		
Surr: 1-Chlorooctadecane	22.5		"	23.4		96.2	50-150		
Surr: Triacontane	25.8		"	23.4		110	50-150		

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/19/01 14:59

Diesel Hydrocarbons (C10-C25) per AK102 - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0106056 - 3545 ASE

LCS Dup (0106056-BSD1)

Prepared & Analyzed: 06/17/01

Diesel Range Organics	941	150	mg/kg wet	1250		75.3	75-125	1.16	20
Surr: 1-Chlorooctadecane	20.9		"	23.4		89.3	50-150		
Surr: Triacontane	24.5		"	23.4		105	50-150		

Matrix Spike (0106056-MS1)

Source: M106050-01

Prepared & Analyzed: 06/17/01

Diesel Range Organics	1440	150	mg/kg dry	1720	336	64.2	60-140		
Surr: 1-Chlorooctadecane	30.2		"	32.2		93.8	50-150		
Surr: Triacontane	34.6		"	32.2		107	50-150		

Batch 0106063 - 3545 ASE

Blank (0106063-BLK1)

Prepared & Analyzed: 06/18/01

Diesel Range Organics	ND	150	mg/kg wet						
Surr: 1-Chlorooctadecane	21.7		"	23.4		92.7	50-150		
Surr: Triacontane	21.0		"	23.4		89.7	50-150		

LCS (0106063-BS1)

Prepared & Analyzed: 06/18/01

Diesel Range Organics	1370	150	mg/kg wet	1250		110	75-125		
Surr: 1-Chlorooctadecane	24.8		"	23.4		106	50-150		
Surr: Triacontane	22.5		"	23.4		96.2	50-150		

LCS Dup (0106063-BSD1)

Prepared & Analyzed: 06/18/01

Diesel Range Organics	1460	150	mg/kg wet	1250		117	75-125	6.36	20
Surr: 1-Chlorooctadecane	25.9		"	23.4		111	50-150		
Surr: Triacontane	23.6		"	23.4		101	50-150		

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/19/01 14:59

BTEX, MTBE and Naphthalene per EPA Method 8021B - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0106059 - MeOH Extraction

Blank (0106059-BLK1)

Prepared & Analyzed: 06/17/01

Benzene	ND	0.0250	mg/kg wet
Toluene	ND	0.100	"
Ethylbenzene	ND	0.100	"
Xylenes (total)	ND	0.200	"
Naphthalene	ND	1.00	"

Surr: 4-BFB 2.22 " 2.50 88.8 50-150

LCS (0106059-BS1)

Prepared & Analyzed: 06/17/01

Benzene	2.06	0.0250	mg/kg wet	2.50	82.4	69-138
Toluene	2.09	0.100	"	2.50	83.6	53-151
Ethylbenzene	2.25	0.100	"	2.50	90.0	61-141
Xylenes (total)	6.40	0.200	"	7.50	85.3	62-141
Naphthalene	3.11	1.00	"	2.50	124	65-135

Surr: 4-BFB 2.31 " 2.50 92.4 50-150

North Creek Analytical - Mobile Lab

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Environmental Laboratory Network

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Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/19/01 14:59

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.

wet Sample results reported on a wet weight basis (as received)

RPD Relative Percent Difference

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc.
Environmental Laboratory Network

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Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Report recreated from: \\sisters\elmnt\Report\M106043 FINAL 06 19 01 1459.mdb Default Report (not modified)